



## AMERICAN BUREAU OF SHIPPING

Two World Trade Center, 106th Floor  
New York, New York 10048

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Report No.: SQ-5356-B

Date: 20 DECEMBER 1999

Port: SHANGHAI, P.R.CHINA

### "LEON I" ABSID 8244775

THIS IS TO CERTIFY THAT the undersigned Surveyor to this Bureau did, at the request of the Owner's representative, attend the M/V "LEON I" of Malta, ABSID No. 8244775, 19,872 gross tons, as the vessel lay afloat and on drydock at Da Dong Shipyard, Chong Ming, PRC on 18 November 1999 and subsequent dates in order to examine and report on the installation of four (4) pedestal cranes and report as follows:

#### Specifications:

Crane Type	Electric --Three (3) Action
Manufacturer	IHI Heavy Industries Co., Ltd.
Safe Working Load	20 metric tons (degraded from 25 metric tons)
Model No.	E-250120-220
Locations:	Main deck centerline between cargo holds:
	No. 1: #1/2 at Frame No. 181
	No. 2: #3/4 at Frame No. 128
	No. 3: #5/6 at Frame No. 92
	No. 4: #6/7 at Frame No. 58

According to ABS Pireaus technical letter dated 25 November 1999, the existing ABS Register of Cargo Gear for subject cranes is considered valid and the cranes are accepted for installation on board "LEON I" as follows:

According to ABS Pireaus approved Drawing No. MA-038-IA, "CONSTRUCTION PLAN OF CRANES FITTING" dated 25 November 1999, the following fabrication of pedestals and structural reinforcements were carried out at each location:

- Existing pedestals were cut and modified in height and width in order to fit between associated hatch covers. As per the amended above mentioned drawing and ABS Pireaus letter dated 26 November 1999, No. 1 Crane was raised an additional 1 meter in height.
- New main deck insert plate; 2,900 x 2,900 x 28t, was installed under each pedestal at each location.
- The under deck structure was reinforced by installing four (4) 'T' bar transverse beams, 500 x 16t x 200 x 30t and two (2) longitudinal 'T' bar stiffeners, 850 x 30t x 400 x 30t including associated brackets and stiffeners.
- Two (2) vertical 'T' bar columns, 1300 x 20t x 300 x 30t and 400 x 20t x 300 x 30t were installed extending down from main deck to tank top in way of each related cargo hold

Note: This Report evidences compliance with one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Report is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Report has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a fuller description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Report is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Report or in any notation made in contemplation of this Report shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.

AB 141

Revision 0

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00244

EXHIBIT

RENCAD 800-631-6989

Graham-11  
6.25-03 mg



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transverse corrugated bulkhead and associated stool. (Note size for No.2 crane: 600 x 20t x 300 x 30t and 1500 20t x 300 x 30t.)

5. Additional vertical stiffeners were installed between tank top plating and bottom plating inside the pipe tunnel.
6. As per ABS Piraeus letter dated 26 October 1999, surveys were carried out during construction of the pedestal and underneath deck structure in order to confirm the materials, welder qualifications, welding procedure approval, compliance with approved drawing and satisfactory workmanship.
7. Upon completion, welds were examined visually and by NDT methods as deemed necessary and considered satisfactory by the undersigned.

## REPAIRS TO EXISTING CRANE ASSEMBLIES

8. Existing crane jibs were removed and steel renewals and reinforcements carried as deemed necessary including complete fabrication of the four (4) jib head assemblies.
9. All existing sheaves were removed, examined and overhauled as required.
10. All electrical motors and associated drive units were removed, examined and overhauled as necessary.
11. Electric cables, circuit breakers and associated electrical equipment were installed as follows:

Cables:                      Manufacturer- Fulgor, Greece  
Type- Heat Resisting, 1000 volts  
I.D. No.- 85 FR, IEC # 332.3

Circuit Breakers:        Manufacturer- CJK  
Type-TO 400 BA, 400 Amp, 380 volts, 50 Hz  
I.D. Nos.- IEC # 947-2, IEC # 92 / GB# 14048.2

12. Electrical installation was installed in accordance with submitted documentation as detailed in ABS Piraeus Technical Review letter dated 14 December 1999. All comments in subject letter were satisfactorily dealt with. The electrical installation was examined and considered satisfactory by the undersigned.
13. Upon completion, a satisfactory proof load test and survey in accordance with section 5.3 "Testing of Cranes as a Unit" from the ABS Guide for Certification of Cranes, 1991" as per ABS Piraeus letter dated 25 November 1999. A post test examination of the cranes and associated gear was carried out and considered satisfactory by the undersigned.

*Roy Graham*  
Roy Graham / ABS Surveyor

Revision 0

AB 141S

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00245



# AMERICAN BUREAU OF SHIPPING SUMMARY REPORT OF STATUTORY SURVEYS

To: 1035 Singapore  
ATTN: Mr. G. G. G. G.

VESSEL "LEON I" ABSID 8244775  
PORT OF REGISTRY Valletta, Malta REPORT NO. SQ-5356 PAGE 1 of 4  
FIRST VISIT 18 NOVEMBER 1999 LAST VISIT 20 DECEMBER 1999  
DATE SURVEY STATUS 16 NOV. 1999 PORT OF ATTENDANCE Shanghai, P.R. China CHECKSHEETS

		OUTSTANDING RECOMMENDATION				
		CONTINUED	COMMENCED	COMPLETE		
SUFFIX A, B, C ETC. AS APPLICABLE						
	<input type="checkbox"/> LOADLINE ANNUAL					
	<input type="checkbox"/> LOADLINE REASSIGNMENT PERMANENT					
	<input type="checkbox"/> SAFETY CONSTRUCTION CERTIFICATE (SLC) (ANNUAL) (INTERMEDIATE) (RENEWAL)					
	<input type="checkbox"/> SAFETY EQUIPMENT CERTIFICATE (SLE) (ANNUAL) (INTERMEDIATE) (RENEWAL)					
	<input type="checkbox"/> SAFETY RADIO CERTIFICATE (SLR/SLT)					
	<input type="checkbox"/> SAFETY PASSENGER SHIP SAFETY CERTIFICATE (SLP)					
	<input type="checkbox"/> INTERNATIONAL OIL POLLUTION PREVENTION (IOPP) (ANNUAL) (INTERMEDIATE) (RENEWAL)					
	<input type="checkbox"/> MODU (ANNUAL) (INTERMEDIATE) (RENEWAL)					
	<input type="checkbox"/> GAS CODE (ANNUAL) (INTERMEDIATE) (RENEWAL)					
	<input type="checkbox"/> CHEMICAL CODE (ANNUAL) (INTERMEDIATE) (RENEWAL)					
	<input type="checkbox"/> ARCTIC POLLUTION PREVENTION					
	<input type="checkbox"/> HSEUK (ANNUAL) (RENEWAL)					
	<input type="checkbox"/> CARRIAGE OF DANGEROUS GOODS - DOCUMENT OF COMPLIANCE (ANNUAL) (RENEWAL)					
	<input type="checkbox"/> ANNEX I IOPP					
	<input type="checkbox"/> ANNEX II IOPP					
	<input type="checkbox"/> CHANGE OF FLAG					
	<input type="checkbox"/> CHANGE OF NAME					
	<input type="checkbox"/> ADMINISTRATIVE EXTENSION					
A	<input checked="" type="checkbox"/> CARGO GEAR (INITIAL) (ANNUAL) (RETESTING) (ABS REGISTER)					
	<input type="checkbox"/> CARGO GEAR (INITIAL) (ANNUAL) (RETESTING) (GREEK) (NIS)					
	<input type="checkbox"/> CARGO GEAR STATEMENT OF FACT/ELEVATORS					
B	<input checked="" type="checkbox"/> NARRATIVE REPORT <i>INSTALLATION SURVEY</i>					
	<input type="checkbox"/> **OTHER INCLINING EXPERIMENT / LIGHTSHIP SURVEY					

CHG-3 CERTIFICATE: FULL TERM ISSUED UNTIL ON 20 DECEMBER 1999 PENDING

CHG-7 CERTIFICATE: FULL TERM ISSUED UNTIL ON 20 DECEMBER 1999 PENDING

CERTIFICATE: ENDORSED \ (FULL TERM) (INTERIM) (CONDITIONAL) ISSUED UNTIL PENDING

CERTIFICATE: ENDORSED \ (FULL TERM) (INTERIM) (CONDITIONAL) ISSUED UNTIL PENDING

LOADLINE CERTIFICATE: PROVISIONAL ISSUED UNTIL PENDING

Signature *Roy Graham* Employee ID 62110  
Signature *Roy Graham* Employee ID  
SURVEYOR(S) TO THE AMERICAN BUREAU OF SHIPPING  
REVIEWED BY: *Hyde* Employee ID 23552 DATE 23 DEC 99 PORT SHANGHAI

\* TOTAL PAGES INCLUDING CHECKSHEETS: PAGE 1 OF 8 (Internal ABS distribution only)

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VESSEL "LEON I" ABSID 8244775  
 REPORT NO. SQ-5356 DATE 20 DEC. 1999 PAGE 2 of 4

### OUTSTANDING DEFICIENCIES

SURVEY: A) CARGO GEAR ANNUAL / RETESTING SURVEY: -NONE-

UPON COMPLETION OF CRANE INSTALLATION, ANNUAL AND RETESTING SURVEYS WERE CARRIED AS PER ABS GUIDE FOR CERTIFICATION OF CRANES, 1991. CHG-3 AND CHG-7 CERTIFICATES WERE ISSUED ON DECEMBER 1999. ABS CARGO GEAR REGISTER WAS ENDORSED.

B) CRANE INSTALLATION SURVEY: -NONE-

AS PER ABS PIRAEUS TECHNICAL LETTER DATED 25 NOVEMBER 1999, FOUR (4) EXISTING ABS REGISTERED CRANES ELECTRIC REVOLVING CRANES WERE ACCEPTED FOR INSTALLATION ON THIS VESSEL AND INSTALLED AT THIS TIME. CRANE PEDESTALS AND UNDER DECK REINFORCEMENTS WERE CARRIED OUT IN ACCORDANCE WITH ABS APPROVED DRAWING NO. MA-038-1A, "CONSTRUCTION PLAN OF CRANES FITTING" DATED 25 NOVEMBER 1999. SEE ATTACHED NARRATIVE REPORT FOR DETAILS.

(ADDITIONAL PAGES TO BE ATTACHED AS REQUIRED)

SIGNATURE: Roy Graham

SURVEYOR ATTENDING VESSEL

DISTRIBUTION:	A.B.SUM/ REPORT	CERT.	CHECK SHEET
VESSEL	1	1	0
OWNER	1	1	0
ABS HOUSTON REPORTS	1	1	1
LOCAL	1	1	1

(\*)Preliminary copy, if requested.

Test Certificate No. SQ-5356-CHG-A

**CERTIFICATE OF TEST AND EXAMINATION OF CRANES OR HOISTS AND THEIR ACCESSORY GEAR:  
BEFORE BEING TAKEN INTO USE. RETESTING SURVEYS, AND  
TESTS ASSOCIATED WITH REPAIRS**

This certificate when properly executed by a competent person is accepted by the Government of the United States of America as being in accordance with the requirements of 46 CFR Part 91, Subchapter I-A and 29 CFR 1918.12(a).

Name of ship on which machinery is fitted

"LEON 1"ID 8244775

(1) Situation and description of the lifting appliance with distinguishing number or mark (if any)	(2) For jib cranes radius at which the proof load was applied	(3) Proof load applied (tons)	(4) Safe working load (for jib cranes at radius shown in Column 2) (tons)
	METERS	METRIC TONS	METRIC TONS
<b>IHI HEAVY INDUSTRIES CO. LTD</b> <b>ELECTRIC, LEVEL LUFFING TYPE, THREE (3) ACTION 20</b> <b>TONS DECK CRANES LOCATED AT:</b>  <b>NO. 1 - CENTERLINE MAIN DECK BETWEEN HATCH NOS.</b> <b>1 &amp; 2 AT FRAME NO. 181</b>  <b>NO. 2 - CENTERLINE MAIN DECK BETWEEN HATCH NOS.</b> <b>3 &amp; 4 AT FRAME NO. 128</b>  <b>NO. 3 - CENTERLINE MAIN DECK BETWEEN HATCH NOS.</b> <b>5 &amp; 6 AT FRAME NO. 92</b>  <b>NO. 4 - CENTERLINE MAIN DECK BETWEEN HATCH NOS.</b> <b>6 &amp; 7 AT FRAME NO. 58</b>	22    22    22    22	25    25    25    25	20    20    20    20

THE ABOVE CRANES WERE EXAMINED IN ACCORDANCE WITH ABS GUIDELINES FOR CERTIFICATION OF CRANES, 1991  
POST TEST EXAMINATION WAS CARRIED OUT AND CONSIDERED SATISFACTORY.

5. Name and address of association witnessing the test and making the examination:

American Bureau of Shipping.Port of Survey SHANGHAI, P.R.CHINA6. Position of signatory in association: Surveyor to American Bureau of Shipping.

I certify that on the 20<sup>th</sup> day of DECEMBER 1999, the above lifting appliance, together with accessory gear, was tested by a competent person in a manner set forth on the reverse side of this certificate; that a careful examination of the said machinery and gear by a competent person after the test showed that it had withstood the proof load without injury or permanent deformation; and that the safe working load of the said machinery and gear is as shown in Column 4.

(Signature) ROY GRAHAM(Date) 20 DECEMBER 1999

In substantial agreement with I.L.O. Form No. 2



Certificate No. SQ-5356-CHG-B**CERTIFICATE OF ANNUAL THOROUGH EXAMINATION OF GEAR WHICH DOES NOT REQUIRE TO BE PERIODICALLY HEAT TREATED, AND FOR ANNUAL INSPECTION OF CARGO GEAR OR CRANES.**

This Certificate when properly executed by a competent person is accepted by the Government of the United States of America as being in accordance with the requirements of 46 CFR Part 91, Subchapter I-A and 29 CFR 1918.12(a).

Name of unit or vessel on which lifting appliance is fitted

'LEON 1'ID 8244775

(1) Distinguishing number, marks or location	(2) Description of gear*	(3) Number & Date of Certificate of Test and Examination	(4) Condition found and repairs effected
CENTERLINE MAIN DECK BETWEEN HATCH NOS. 1 & 2 AT FRAME NO. 181	IHI HEAVY INDUSTRIES CO. LTD. - ELECTRIC LEVEL LUFFING TYPE, THREE (3) ACTION, 20 TON S.W.L. CRANES	SQ-5356-CHG-A DATED 20 DECEMBER 1999	SATISFACTORY.
CENTERLINE MAIN DECK BETWEEN HATCH NOS. 3 & 4 AT FRAME NO. 128	SAME AS ABOVE	SQ- 5356- CHG-A DATED 20 DECEMBER 1999	SATISFACTORY
CENTERLINE MAIN DECK BETWEEN HATCH NOS. 5 & 6 AT FRAME NO. 92	SAME AS ABOVE	SQ-5356-CHG-A DATAED 20 DECEMBER 1999	SATISFACTORY
CENTERLINE MAIN DECK BETWEEN HATCH NOS. 6 & 7 AT FRAME NO. 58	SAME AS ABOVE	SQ-5356-CHG-A DATED 20 DECEMBER 1999	SATISFACTORY.

THE ABOVE CRANES WERE EXAMINED IN ACCORDANCE WITH ABS GUIDE FOR CERTIFICATION OF CRANES, 1991.

\* In regard to gear not required to be periodically heat treated, the dimensions of the gear, the type of material of which it is made, and the heat treatment received in manufacture should be stated.

5. Name and address of association making the examination: American Bureau of Shipping.

Port of Survey SHANGHA, P.R.CHINA

6. Position of signatory in association: Surveyor to American Bureau of Shipping.

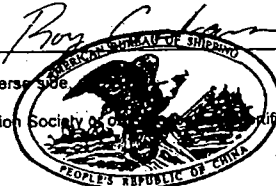
I certify that on the 20th day of December 19 99, the above lifting appliance was thoroughly examined by a competent person and that no defects affecting its safe working condition were found other than those indicated and corrected as noted in Column 4.

(Date) 20 DECEMBER 1999(Signature) ROY GRAHAM

NOTE: For list of gear not required to be treated and definition of thorough examination, see reverse side.

For the purpose of this certificate a competent person is defined as a Surveyor of a Classification Society or a certifying agency

In substantial agreement with I.L.O. Part II



RECEIVED OUT

**AMERICAN BUREAU OF SHIPPING  
CARGO GEAR ANNUAL AND RETESTING SURVEY CHECK SHEET**

VESSEL LEON I ABSID 8244775  
Associated REPORT NO. SQ-5356-A DATE 20 DEC. 1999

YES NO N/A

**ANNUAL CARGO GEAR SURVEY**

- |  |                                     |                          |                                     |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. All gear as noted in the Cargo Gear Register was examined as follows and found satisfactory:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| a. CRANES: Visually inspected the crane structure, and crane hooks for deformation, excessive wear, corrosion, and damage or fractures. For Drilling Units crane hooks were non-destructive tested. Externally examined and operational tested as applicable, the crane machinery, safety protective and limiting devices, and wire rope and end attachment. Carried out functional tests. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| b. BOOMS: All structural parts, including winches, booms, stayed masts, pins and connections, wire ropes, chains, rings, hooks, links, swivels, and blocks were visually examined.   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Endorsed Cargo Gear Register and issued CHG-7 Certificate.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |

**CARGO GEAR RETESTING SURVEY**

- |  |                                     |                          |                                     |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 3. (All of the)(Part of) cargo gear load tested.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| 4. Post test examination of all gear carried out as follows and found satisfactory.  |                                     |                          | <input type="checkbox"/>            |
| a. CRANES: Examined each crane, together with all critical accessories, including foundation, sheaves and rope guides, wire ropes including end connections, hoist machinery, brakes and clutches, hooks, slewing assembly and bolting arrangements for permanent deformation. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| b. BOOMS: Examined all cargo gear, with the whole of the gear accessory thereto, all chains, rings, hooks, links, shackles, swivels, pulley blocks or other loose gear for permanent deformation.  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Calibration of test equipment used in the process was verified as noted below:  | <input checked="" type="checkbox"/> |                          | <input type="checkbox"/>            |
| a. Review of Equipment Calibration Record(s). <u>SHIP and Files</u>  | <input checked="" type="checkbox"/> |                          | <input type="checkbox"/>            |
| b. Other: _____  |                                     |                          |                                     |
| 6. Annual Cargo Gear Survey was carried out.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| 7. Endorsed Cargo Gear Register and issued appropriate Certificate.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |

**Additional Requirements for NIS Lifting Gear Certificate**

- |   |                          |                          |                                     |
|---|--------------------------|--------------------------|-------------------------------------|
| 8. Examination carried out as noted above, on all gear noted on NIS Lifting Gear Certificate. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| a. Annual Survey carried out and Certificate endorsed.  | <input type="checkbox"/> |                          | <input type="checkbox"/>            |
| b. Retesting Survey carried out and NIS Lifting Gear Certificate issued.                      | <input type="checkbox"/> |                          | <input type="checkbox"/>            |

**Additional Requirements for Hellenic Lifting Gear Certificate**

- |  |                          |                          |                                     |
|--|--------------------------|--------------------------|-------------------------------------|
| 9. Examination carried out as noted above, on all gear noted on Hellenic lifting gear. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| a. Annual Survey carried out and certificate endorsed.                                 | <input type="checkbox"/> |                          | <input type="checkbox"/>            |
| b. Retesting Survey carried out and Hellenic Lifting Gear Certificate issued.          | <input type="checkbox"/> |                          | <input type="checkbox"/>            |

Requires an annual cargo gear survey be carried out.

Should all gear not be tested, survey not to be considered complete. Gear tested/remaining to be tested to be noted on form A.B. Sum B.

Cargo Gear

Cargo Gear, Lifting Gear, and Elevator Surveys, SWZ-002-02-P03-W051

Check Sheet A - Rev. 5

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